

## **ABSTRACT**

A solid state adaptive forward lighting system is described for use with automobile headlamps. A central processing unit receives input from automobile wheel position sensors and incline sensors. The processing unit signals an array of light emitting diodes to selectively operate one or more diodes in the array to produce light. The array of light emitting diodes is provided with a converging lens to selectively change the angle of light projected from the light housing. The invention is thus able to change the angle of light based on the inputs from the sensors. The change in the angle of light enhances the automobile operator's view of the upcoming roadway, regardless of the orientation of the vehicle.

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